Using The Limited Capacity Model of Mediated Message Processing To Study and Design Health Communication Messages







Assumption:

Understanding how people process mediated messages should create knowledge that will allow us to design effective media.







Form

- Structural Features
- Production Pacing
- Complexity
- Rate/Control
- Symbol System

Content

- Emotion
- Difficulty
- Familiarity
- Topic
- Genre

Impact Processing Variables

- Attention selection
- Attention effort
- Arousal

- Encoding
- Storage
- Retrieval

Operational Model

- Orienting Response
- Cognitive Effort
- Resource Allocation
- Encoding
- Storage
- Retrieval
- Emotional Valence
- Emotional Arousal
- Arousal

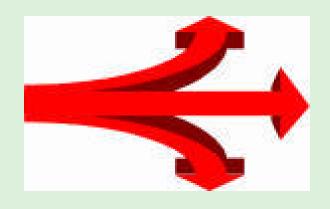
- Phasic HR slow down
- Tonic HR slow down
- STRT
- Recognition
- Cued Recall
- Free Recall
- SAM, EMG, Startle
- SAM
- Skin Conductance

What are message goals?

- Attention
- Awareness
- Learning
- Persuasion









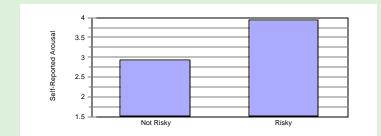
Applying the Theory to Health Communication Messages

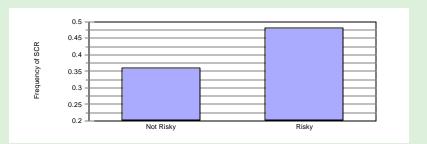
- What is special about health messages?
- What is special about the goal of health messages?
- What is special about the audience for health messages?

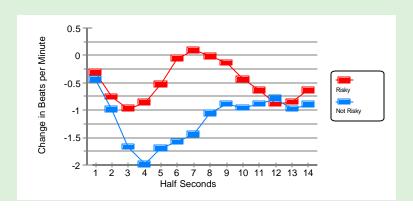
What is special about messages. Risky Behavior Messages.

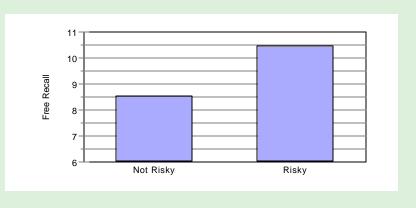




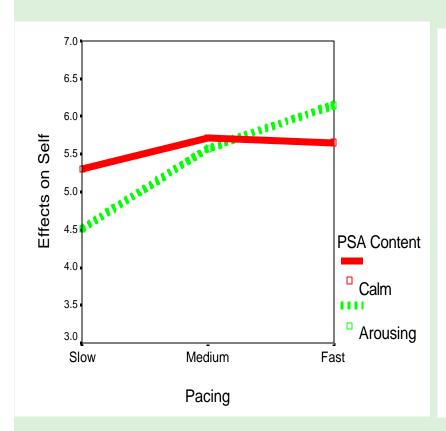


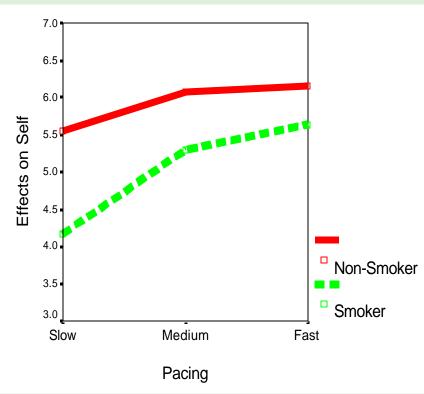




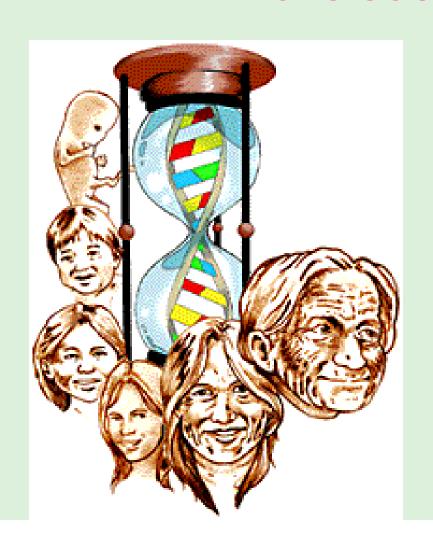


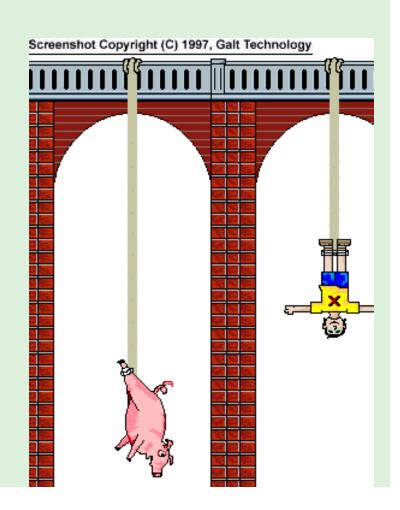
What is special about the goal?





What is special about the audience?



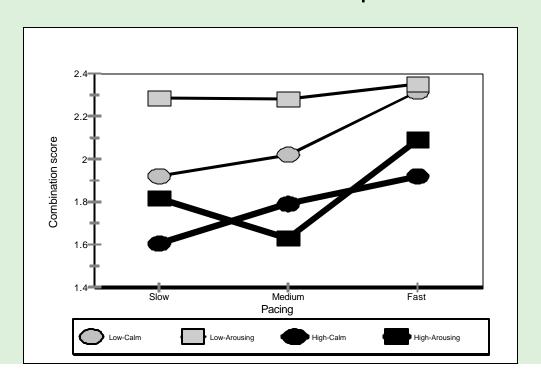


How does age affect processing?

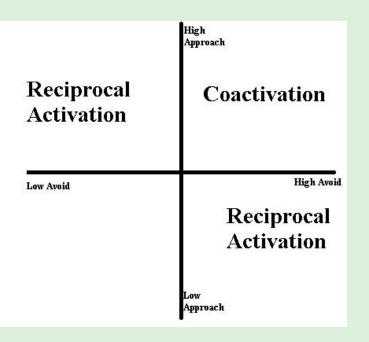
- Adolescents pay more attention to arousing content than college students.
- Adolescents are more aroused by increased production pacing than college students.
- College students show signs of cognitive overload sooner than adolescents.

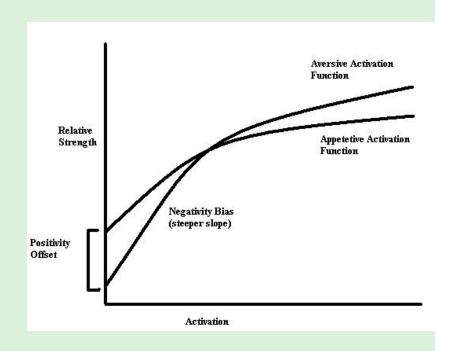
How does Sensation Seeking affect processing?

- High SS have more positive valence
- High SS have better recognition
- No difference in attention
- No difference in cognitive overload
- Less arousal overall and in response to IV



MAM – Motivation Activation Measure Based on Cacioppo's Coactivation Model





Motivational Types

	Low	High	
	Negativity	Negativity	
	Bias	Bias	
Low		Risk	
Positivity	Inactives	Avoiders	
Offset			
High	Risk		
Positivity	Takers	Coactives	
Offset			

Relationships among MAM, SS, and Use

Motivational Types	SS Study 1	SS Study 2	Use Study 1	Use Study 2
Risk Takers	22.74	25.07	40.26	43.00
Risk Avoiders	15.63	19.77	17.42	32.86
Coactives	18.69	23.23	29.69	48.96
Inactives	21.92	21.09	28.23	37.81

What's Next?

- Further development work on mini-MAM and Yo-MAM
- Validation work using behavioral & psychophysiological measures (STRT for positivity offset and startle reflex for negativity bias).
- Determine if different motivational types process emotional messages differently.